

Research and Development

The Department is also a recognized research centre for offering PhD programmes under Anna University. There are 4 faculty members with a Ph.D degree. All the faculty members had published papers in scopus indexed journals. A research lab is set up in the department encouraging the faculty members to pursue research.

Funded Projects Applied

S.No	Project Title	Funded Agency	Duration	Cost	Investigator and Co-Investigator Details
1	“Question Answering System for Synthesis and Evaluation Questions of Blooms Taxonomy”	UGC		3,93,000	P.Shanthi Asst. Professor
2	A framework of user centric social network analysis and mining for health care information	UGC		4,82,910	Dr.U.K.Sridevi Asst. Professor

Publication Details

Papers Published in Journals

S.No	Name of the Faculty	Title of the Paper
1.	Dr. Sreelaja.N.K	“ Design of Stream Cipher for Text Encryption using PSO based Key Generation ”, JIAS- March 2009, Vol 4-Issue 1.
2.	Dr.D.Bhanu	“ Retail market analysis in targeting sales based on consumer behaviour using fuzzy clustering- A rule based model ”, Journal of Computing, December 2009, Vol-1,Issue-1,ISSN-2151-9617.

3.	Dr. Sreelaja.N.K	“Swarm Intelligence based approach for dynamic group authentication in EHRM system” , IJCR, Vol 17, Issue 3, August 2009.
4.	Dr.U.K.Sridevi	“Ontology based Correlation Analysis in Information Retrieval in International Journal of Recent Trends in Engineering” , Volume 2 November 2009 , ISSN 1797-9617
5.	Dr.R.Vidyabanu	“Enhancing Privacy of Confidential Data using K Anonymization” , International Journal of Recent Trends in Engineering, Vol2 , No1 Nov 2009 ,pp.130-133.
6.	Dr.M.S.Irfan Ahmed	“Analysis And Racing of Human by Faces in Live Video Using PCA” , Journal of International Journal of Computer Engineering, 2009.
7.	Dr.U.K.Sridevi	“Ontology based Similarity Measure in Document Ranking” in International Journal of Computer Applications, Volume 1 –No 26, pp:135-139.ISSN 0975 - 8887.
8.	Ms.W.Regis Anne & Ms.K.Pradeepa	“Comparitive analysis of Mobility models in wireless networks” International Journal of Computer Applications in Engineering Technology, March 2010.
9.	Dr.R.Vidyabanu	“A Model Based Framework For Privacy Preserving Clustering Using SOM” , International Journal of Computer Applications, March 2010, Vol 1 No 13, pp. 17-21.
10.	Ms. R.Athilakshmi	“Theft detection system through thresholding technique with image background segmentation method” , CIIT International Journal of Digital Image processing, Print ISSN 0974-9691, May 2010 pp-131-135.
11.	Ms.W.Regis Anne & Ms.K.Pradeepa	“Design and Implementation issues of clustering in sensor networks” , International Journal of Emerging Technologies and Applications, July 2010.
12.	Dr.V.B.Kirubanand	“Performance modeling of client server with mobile-fi application using queueing Petri nets by Markov algorithm with security of cryptography” , International Journal of Network and Computer Engineering, Research India Publication, July-Aug 2010,pp:1-9.
13.	Ms. R.Athilakshmi	“Defect Identification of lumber by statistical feature extraction with correlation method” IJCA online journal, July 2010.
14.	Dr.V.B.Kirubanand	“A hybrid model in comparing the performance of wired and wireless technologies by using markov algorithm and queueing Petri net” , IJCA online journal Sep 10, 2010.
15.	Dr. Sreelaja.N.K	“Ant Colony Optimization based approach of efficient packet filtering in Firewall” , Applied Soft Computing, Sep 2010, Vol 10, Issue 4.
16.	Dr.V.B.Kirubanand	“A hybrid model in comparing the performance of wired and wireless technologies by using markov algorithm and queueing petrinets” , International journal of Computer Application, Sep 2010.

17.	Ms.P.Shanthi	“Feature based assesment of e-learning tools” , CIIT Journal.
18.	Dr.V.B.Kirubanand	“Performance modeling in client server network comparison of hub, switch, and Bluetooth technology using markov algorithm and queuing petrinets with the security of steganography” , International journal of Advanced networking and applications,2010,pp.331-336.
19.	Dr.V.B.Kirubanand	“A Hybrid model in comparing the performance of wired and wireless technologies by using the markov algorithm and queuing petrinets” , Directory of open access journals.Vol.7, 2010.
20.	Dr.V.B.Kirubanand	“Comparison of M/M/1 and M/M(1,b)/1 using MATLAB to find performance in wired and wireless technologies in client server applications applying cryptography and steganography” , International journal on network computing, 2010.
21.	Dr.V.B.Kirubanand	“Performance modeling of client server network in wired and wireless technologies by using stead fast algorithm” , Indian Research Review journal.2010.
22.	Dr.V.B.Kirubanand	“Novel mechanism control algorithm for wired network” , Journal of computer science, Vol.7, issue9.2011.
23.	Dr.V.B.Kirubanand	“Study of performance analysis in wired and wireless networks” , American journal of applied sciences. Vol.8, Issue.8.2011.
24.	Dr.M.S.Irfan Ahmed	“Network Intrusion Detection using Clustering: A Data Mining Approach” , Published in the International Journal of Computer Applications, 2011.
25.	Dr. Sreelaja.N.K	“Swarm Intelligence based key generation for stream cipher” , Security and Communication networks, John Wiley and Sons, Feb 2011, Vol 4,Issue 2,pp 181-194.
26.	Dr.V.B.Kirubanand	“Distributed data transaction of an apache web server using bulk service rule” , International journal of computer applications.2011.
27.	Dr.U.K.Sridevi	“Semantically Enhanced Document Clustering, Based on PSO Algorithm” , European Journal of Scientific Research, ISSN 1450-216X Vol.57 No.3 (2011), pp.485-493
28.	Dr.U.K.Sridevi	“An Ontology Based Model for Document Clustering” , International Journal of Intelligent Information Technologies, VOLUME 7(Issue 3), 54-69, July-September 2011,DOI: 10.4018/jiit.2011070105, ISSN: 1548-3657
29.	Dr.M.S.Irfan Ahmed	“Multipath Routing Scheme for Link Failures in Broadband Communications” , International Journal of Computer Applications in Engineering Sciences, 2011.

30.	Dr.R.Vidhyabanu	Perturbation based Technique for Privacy Preserving Clustering of High Dimensional Data , International Journal of Data Mining Knowledge Engineering, April 2012
31.	Dr.R.Vidhyabanu	Evaluation of a perturbation-based technique for privacy preservation in a multi-party clustering scenario , Journal : Information Sciences , Elsevier, (2012), http://dx.doi.org/10.1016/j.ins.2012.02.045
32.	Dr.S.Duraisamy	“Design and Implementation Issues of clustering in wireless sensor networks” IJCA June 2012
33.	Ms.K.Pradeepa	“Design and Implementation Issues of clustering in wireless sensor networks” IJCA June 2012
34.	Ms.W.RegisAnne	“Design and Implementation Issues of clustering in wireless sensor networks” IJCA June 2012
35.	Dr.R.Vidhyabanu	“Low dimensional data privacy preservation using multilayer Artificial Neural Network” International Journal of Intelligent information Technologies, Vol 8.No (3) 2012.
36.	Dr.S.Duraisamy	“CNN-Based Approach for Segmentation of Brain and Lung MRI Images” , European Journal of Scientific Research, ISSN 1450-216X Vol.81 No.3 (2012), pp.298-313.
37.	Dr.Sreelaja.N.K	“Stream Cipher for Binary Image encryption using Ant Colony Optimization based Key generation” , Applied Soft Computing, 2012.
38.	Dr.S.Duraisamy	“A technique for tumor region identification using cellular neural network” , Journal of Theoretical and Applied Information Technology, Vol. 55 No.1, ISSN: 1817-3195.
39.	Dr.M.S.Irfan Ahmed	“Improved PageRank Algorithm for Web Structure Mining” , International Journal of Computers & Technology, Sep 15 2013.
40.	Dr.M.S.Irfan Ahmed	“Knowledge sharing through pair programming in learning environments: An empirical study” , Education and Information Technologies, Springer, US, Oct 2013.
41.	Dr.M.S.Irfan Ahmed	“A Feature Based Framework to Detect Malicious URLs” , Archives Des Sciences, 2013
42.	R.Athilakshmi	“Performance Analysis of Polygonal ROI based Hybrid Feature Extraction Method for Vehicle Object Classification” , IJSC, ISSN : 1816-9503 (Print).
43.	W.Regis Anne	“Mobile Entities in WSN:Theory and performance Analysis” , IJCT, Volume 4, Issue 1, Pages 661-668 ISSN 2229-6948.
44.	K.Pradeepa	“Utilizing multiple mobile sinks to improve wireless sensor network lifetime” , IJMNDI, Volume 5 Issue 1, October 2013.
45.	Dr.Sreelaja.N.K	“Swarm Intelligence based approach of sink hole attack detection in wireless sensor networks” ,Applied Soft Computing,2014.

46.	Jayasudhasubburaj	“Cloud and Ontology Based Software Reuse (COSR)” , - Journal of Nano Science and Technology Feb 2014.
47.	Jayasudhasubburaj	“Genetic Algorithm and PSO Based Intelligent Software Reuse” , – Applied Material and Mechanics June 2014.
48.	Jayasudhasubburaj	“A Noval Software Reuse Method – An Ontological Approach” , R.Jayasudha. S.Subramanian, L.Sivakumar - International Journal of Scientific & Engineering Research - MAY-2014 ISSN 2229-5518
49.	Jayasudhasubburaj	“Semantic Based Systematic Software Reuse(SSSR)” , International Journal of Advanced Computer Communications and Control. (Accepted for Publication).
50.	Jayasudhasubburaj	”Software Repository – A Semantic Web Approach” , International Journal of Electrical Engineering July 2014
51.	Dr.M.S.Irfan Ahmed	“A Mathematical Approach for Improving the Performance of the Search Engine through Web Content Mining” ,Journal of Theoretical and Applied Information Technology.
52.	Dr.S.Duraisamy	“Clustering Of Web Query Results Using Enhanced K-Means Algorithm” , International Journal of Advanced Computer Technology (IJACT) 3 (Issue-5), 10-14, Oct 10, 2014.
53.	Dr.M.S.Irfan Ahmed	“Improved PageRank Algorithm for Web Structure Mining” , International Journal of Computers & Technology,Sep 15 2013.
54.	Dr.M.S.Irfan Ahmed	“A Feature Based Framework to Detect Malicious URLs” , Archives Des Sciences, 2013.
55.	Dr.M.S.Irfan Ahmed	“Knowledge sharing through pair programming in learning environments: An empirical study” , Education and Information Technologies, Springer, US,Oct 2013.
56.	R.Athilakshmi	“Performance Analysis of Polygonal ROI based Hybrid Feature Extraction Method for Vehicle Object Classification” , IJSC, ISSN : 1816-9503 (Print).
57.	W.Regis Anne	“Mobile Entities in WSN:Theory and performance Analysis” , IJCT, Volume 4, Issue 1, Pages 661-668 ISSN 2229-6948.
58.	K.Pradeepa	“Utilizing multiple mobile sinks to improve wireless sensor network lifetime” , IJMNDI, Volume 5 Issue 1, October 2013.
59.	Dr.Sreelaja.N.K	“Swarm Intelligence based approach of sink hole attack detection in wireless sensor networks” ,Applied Soft Computing,2014.
60.	W.Regis Anne	”Autonomous Movement of Mobile Relay in WSN to Enhance Network Lifetime” , in special issue on Advances in wireless sensor networks of IJCT journal, Vol5,No.2,Issue 2,pp 911-916,2014.

61.	Jayasudhasubburaj	“Cloud and Ontology Based Software Reuse (COSR)” , - Journal of Nano Science and Technology Feb 2014.
62.	Jayasudhasubburaj	“Genetic Algorithm and PSO Based Intelligent Software Reuse” , – Applied Material and Mechanics June 2014.
63.	Jayasudhasubburaj	“A Noval Software Reuse Method – An Ontological Approach” , R.Jayasudha. S.Subramanian, L.Sivakumar - International Journal of Scientific & Engineering Research - MAY-2014 ISSN 2229-5518
64.	Jayasudhasubburaj	“Semantic Based Systematic Software Reuse(SSSR)” , International Journal of Advanced Computer Communications and Control. (Accepted for Publication).
65.	Jayasudhasubburaj	”Software Repository – A Semantic Web Approach” , International Journal of Electrical Engineering July 2014
66.	Dr.M.S.Irfan Ahmed	“A Mathematical Approach for Improving the Performance of the Search Engine through Web Content Mining” ,Journal of Theoretical and Applied Information Technology.
67.	Shanthi P	“Ontology Based Question Answering on Closed Domain for e-learning applications” , Australian Journal of Basic Applied Sciences”, SJR:-0.162,H-index:12, Impact Factor 0.425, Vol.8, No.15, September 2014, pp. 336-401, ISSN: 1991-8178.
68.	Dr.S.Duraisamy	“Clustering Of Web Query Results Using Enhanced K-Means Algorithm” , International Journal of Advanced Computer Technology (IJACT) 3 (Issue-5), 10-14, Oct 10, 2014.
69.	Shanthi P	‘Register Linear Based Model for Question Classification Using Costa Level Questions’ , ‘WSEAS Transactions on Computers’, SCI:-O.038, ISSN/E-ISSN: 1109-2750 / 2224-2880, Vol. 14, 2015, pp. 369-381.
70.	Shanthi P	“A Survey on Question Answering System using Semantics” , “International Journal of Physical Sciences”, Scopus Index(SJR):-0.15, H-index 17:-17, Impact Factor:-0.55, ISSN: 1992-1950, (Accepted for Publications)
71.	Prabu. P & Duraisamy. S	Impact of Pair Programming for Effective Software Development Process’ , Research India Publications, International Journal of Applied Engineering Research, vol.10, no.8, pp.18969-18986, 2015.
72.	Prabu. P & Duraisamy. S	‘The Impact of CPPM Model and Metaphor on Pair Programming’ , Maxwell Publications, Research Journal of Applied Sciences, Engineering and Technology, 2015.
73.	Prabu. P & Duraisamy. S	‘Reducing Defects in Software Development Process using Pair Programming’ , International Journal of Computer Science and Communication Networks, vol.5, no.2, pp 128-135,2015.

74.	Prabu. P & Duraisamy. S	“An Effective Approach to improve the Quality of Pair Programming using Conglomeration Pair Programming Model’ , Research India Publications, International Journal of Applied Engineering Research,2015.
75.	Pradeepa K, Duraisamy S	“Energy efficient positioning of mobile base stations to improve wireless sensor network lifetime” in International Journal of Sensor Networks- INDERSCIENCE PUBLISHERS with Impact Factor 1.3,2015.
76.	W.Regis Anne	"Mobile entities in wireless sensor networks: comparative study and performance analysis” , International Journal of Information and Communication Technology (Inderscience publications & Scopus Indexed - In Press), 2015.
77.	W.Regis Anne	"Optimizing the energy usage to maximize the existence of wireless sensor networks using mobile relays” , Human centric computing and Information Sciences. (Accepted , Springer & Scopus Indexed), 2015.
78.	W.Regis Anne	"An autonomous moving heuristic for mobile sink based on feasible sojourn regions to maximize network lifetime in wireless sensor networks" , International Journal of Information Technology, Communication and Convergence,Vol.3, No.1, pp. 65-86, 2014.(Inderscience publications).

Papers Published in Conferences

S.No	Name of the Faculty	Title of the paper published
1.	Dr.R.Vidyabanu	“Protecting the Input and Output Privacy of Sensitive Data” ,In International Conference on Sensors, Security and Intelligent Systems (ISSIS) Coimbatore Institute of Technology, Coimbatore, Jan 8-10 2009.
2.	Dr.R.Vidyabanu	“Preservation of Data Privacy using PCA based Transformation” ,In IEEE International Conferences on Advances in Recent technologies in Communication and Computing (ARTCOM 2009) , Oct, 28 2009 (DOI 10.1109/ ARTcom. 2009.159)
3.	Dr.N.K.Sreelaja	“Swarm Intelligence approach of leaker identification in a secure multicast” ,Nabic-2009, 9-11 Dec,Coimbatore.
4.	Dr.U.K.Sridevi	“Ontology based semantic measures in document ranking” , IEEE International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2009.
5.	Dr.U.K.Sridevi	“Ontology Based Retrieval System Based On Web Structures In International Conference On Web Intelligent Systems” , (ICWIS09), Rajalakshmi Engineering College, Chennai, India

6.	Dr.M.S.IrfaanAhamed	“PBFMCSP: Prefix Based Fast Mining of closed Sequential Patterns” , International conference on Advantages in Computing Control Telecommunication Technologies, Trivandrum, 2009.
7.	Dr.D.Bhanu	“Retail marketing segmentation and customer profiling for forecasting sales” , ICVNS, Feb 18 2010 Coimbatore.
8.	Ms.W.Regis Anne & Ms.K.Pradeepa	“An Analytical study of mobile entities in Wireless Sensor Networks” , NCACCA, March 2010 at Sri Ramakrishna Engineering College, Coimbatore.
9.	Ms.K.Pradeepa & Ms.W.Regis Anne	“A new algorithm with constant and Adaptive stopping time for sinks to improve network lifeteime” , NCACCA, March 2010 at Sri Ramakrishna Engineering College, Coimbatore.
10.	Ms.W.Regis Anne & Ms.K.Pradeepa	“Mobile entities in wireless sensor networks –Design issues and compartitive study” , International conference on intelligent information systems and Management, RVS college of Engg and Technology, June 2010.
11.	Ms. R.Athilakshmi	“Wood Inspection and Quality checking through descriptive Statistics” ,IISM 2010 at RVS college of Engineering and Technology, Coimbatore,June 2010.
12.	Ms.K.Pradeepa , Ms. W.Regis Anne & Dr.S.Duraisamy	“Improving Sensor Network Lifeteime Using Multiple Mobile sinks:A New Predetermined trajectory” , ICCCN 2010 IEEE Conference at Chettinad College of Engineering and Technology,Karur, July 2010.
13.	Ms.K.Pradeepa , Ms. W.Regis Anne & Dr.S.Duraisamy	“Improving Sensor Network Lifeteime Using Multiple Mobile sinks:A New Predetermined trajector ” ,IDAEPSC10, Sri Krishna College of Engineering and Technology, July 2010.
14.	Dr.R.Vidyabanu	“Contactless Smart Cards – Security Threats, Privacy Issues and Quantum Cryptography “ ,In International conference on Embedded Systems (ICES 2010) ,Coimbatore Institute of Technology , July 14-16,2010.
15.	Ms. R.Athilakshmi	“Home Security system for theft detection with image background subtraction method” ,IDAEPSC10, Sri Krishna College of Engineering and Technology, July 2010.
16.	Dr.V.B.Kirubanand	“Queuing Petri nets in client server network for performance modeling of wired and wireless technologies using Markov model and cryptography” , International conference on Intelligent Design and Analysis of Engineering Products, Systems and Computation, July 2010.
17.	Dr.V.B.Kirubanand	“Performance modeling of hub,swutch, bluetooth and wi-fi technologies in client server application to find interarrival and inter service time using markov algorithm by applying cryptography and steganography” , Sep 3,2010.
18.	Dr.V.B.Kirubanand	“A hybrid model in comparing the performance of wired and wireless technologies by using M/M(a,b)/1 markov algorithm and queueing petrinets” , National conference on Advanced Computing,2010.

19.	Dr.V.B.Kirubanand	“Distributed data transaction network in client server applications using of M/M/1 and M/M(1,b)/1 and RSA” , International conference on communication and computational intelligence INCOCCI,2010,pp 524-528.
20.	Ms. R.Athilakshmi	“Defect identification of Lumber through correlation technique with statistical and textural feature extraction method” International conference on communication and computational intelligence INCOCCI,2010,pp 524-528., Kongu Engineering College
21.	Dr.V.B.Kirubanand	“Performance modeling in client server comparison of hub, switch, Bluetooth and wi-fi technology by using markov algorithm and queuing petrinets with the security of steganography” , International conference on computing communication and information technology application. VLBJCET college,CBE.2010.
22.	Dr.V.B.Kirubanand	“Performance modeling of hub, switch, Bluetooth, and wifi technologies in client server applications to find inter arrival, service time using markov algorithm by applying cryptography and steganography” , International conference on computer application and information technology. Hindustan college of Engineering and Technology, 2010.
23.	Dr.V.B.Kirubanand	“Queuing petri nets in client server network for performance modeling of wired and wireless technologies using markov model and cryptography” , International conference on intelligent design and analysis of engineering products, systems and computation, Sri Krishna College of Engineering and technology,2010.
24.	Dr.V.B.Kirubanand	“Distributed data transaction network in client server application using of M/M/1 and M/M(a,b)/1 and RSA” , International conference on communication and computational intelligent. Kongu Engineering College,2010.
25.	Dr.V.B.Kirubanand	“Performance modeling in client server comparison of single and multi server using hub, Bluetooth technology by using markov algorithm and queuing petrinets with the security of steganography” , National Conference on advances in computing and IT. Nehru College, 2010.
26.	Dr.V.B.Kirubanand	“Queuing petrinets in client server network for performance modeling of wired technologies using markov model and steganography” , National conference on data mining and warehousing. VLB Arts and science college,2010.
27.	Dr.V.B.Kirubanand	“Performance modeling in client server network comparison of hub, switch, and Bluetooth technology by using Markov algorithm and queuing petrinets with the security of advanced encryption standard” , National conference on emerging trends in computational science and its applications. UGC sponsored V.S.S.Govt college, 2010.

28.	Dr.V.B.Kirubanand	A hybrid model in comparing of wired and wireless network by using M/M(a,b)/1 markov algorithm and queuing petrinets. National conference on advanced computing, 2010.
29.	Ms.Jayasudha Subburaj	”Efficient & Timely Information Retrieval by Query Enrichment using Ontology for Boiler ” - International conference CCITA -2010 at VLB.Engineering College.
30.	Dr.V.B.Kirubanand	Performance modeling of an Apache web server using M/M(1,b)/1 Queuing model. National conference on Scientific computing and applied mathematics, VLB Engineering College.2011.
31.	Dr.R.Vidyabanu	“Implementation of Financial System Using EyeOS in the Cloud Environment “ ,IEEE International conference on Recent Trends in Information Technology (ICRTIT 2011)Madras Institute of Technology, Anna University, Chennai, june 3-5, 2011
32.	Dr.V.B.Kirubanand	“Novel Encryption Control Mechanism Algorithm for Wimax network” , International Conference on Communication Technology and system Design,Dec,2011 Amrita VishwaVidhyapeetham university,Coimbatore.
33.	Ms.Jayasudha Subburaj	“Ontology Based Legal Text Retrieval” – National Conference NCIT 2011 held at Karpagam University on 6 th September ,2011.
34.	Ms.Jayasudha Subburaj	“A Review on Integrated approach on data mining and process using MP” – National Conference NCIT 2011 held at Karpagam University on 6 th September, 2011.
35.	Dr.V.B.Kirubanand	“Study of wired and wireless network using novel security mechanism” , International conference on mathematical applications,2012, New Wave Avinashilingam university, Coimbatore
36.	Dr. M. S. IrfaanAhamed	“Automatic Breast tumor Detection and Classifications asymmetries in mammograms using Artificial Neural Networks and Hybrid GA” Info College of Engineering, March 2012
37.	Dr. V. B. Kirubanand	“Client Server Modelling In Job Scheduling With Queuing Petri Net And Bulk Service Model Using Novel Security” , International conference, Sri Vasavi College,2014.
38.	Ms. W. Regis Anne	“Optimizing the energy usage to maximize the existence of wireless sensor network by mobile sink” , COMNET-2014 International conference on Communication and Computer Networks of Future, PSG college of Technology, March 2014.
39.	Dr.V.B.Kirubanand	“A study of queuing petrinets with network security” , ICAMME 14, SKCET, November 2014.
40.	Dr.R.VidyaBanu	“Novel Privacy Preserving Technique Using Soft Enigma” , ICGHIA 14, International conference on Graph Algorithms, High performance implementations and applications, CIT, Coimbatore, December 2014.

Consultancy Projects

S.No	Name of the Organization	Project Details	Duration	Cost	Team Members
1.	Central Reserve Police Force Training College	Automation of Mess and Library	1 year	Consultancy Service Project	Dr.Sreelaja.N.K
2.	Southern Railway, Podanur	Stores Management System	1 year	Consultancy Service Project	Dr.P.Shanthi